

**PL-646 CWPPRA  
PROJECT COMPLETION REPORT**

<b>PROJECT NAME</b>	<b>Lake Portage Land Bridge Project</b>
<b>CWPPRA/STATE PROJECT NO</b>	<b>TV-17</b>

Report Date      January 25, 2005                      By:      Natural Resources Conservation Service

**1. Project Personnel**

DNR Project Manager	Ismail Merhi	(225) 342-4127
DNR Construction Project Manager	Stan Aucoin	(337) 482-0681
DNR Monitoring Manager	Troy Barrilleaux	(337) 482-0657
Federal Agency Project Manager	Richard Abshire	(337) 291-3111
Federal Agency Contracting Officer	Ralph Broome	(318) 473-7781
Federal Agency Design Engineer	Cherie LaFleur	(318) 473-7674
Federal Agency COTR	Wayne Melancon	(318) 783-1257 ext. 125
Federal Agency Inspector	Gary Prioux	(318) 783-1257 ext. 125

**2. Project Location & Description**

The proposed Lake Portage Land Bridge Project will backfill a gas pipeline canal to a settled target elevation (2.0 NAVD88) from Vermilion Bay to the Gulf of Mexico with material dredged from Vermilion Bay. The project site is located in the Teche/Vermilion Basin, immediately adjacent to Lake Portage within the Paul J. Rainey Wildlife Sanctuary and Louisiana State Wildlife Refuge, west of Southwest Pass in Vermilion Parish, Louisiana. The 1,540-acre project area is bounded by Vermilion Bay to the north and the Gulf of Mexico to the south, and is comprised of approximately 81 percent emergent marsh and 19 percent open water.

The work within the project consisted of building up existing spoil banks around Areas 1 and 3 for containment of the dredged material. Material was then hydraulically dredged from within Vermilion Bay and pumped into the containment areas. Also dredge material was pumped into an unconfined Area 2 which was south of the confined Area 1. The dredge material was pumped to an elevation of +3.5 within Areas 1 & 3 and to an elevation of + 2.0 in Area 2.

**3. Final Constructed Features**

The final constructed features of this project include the placement of 40900 cubic yards of hydraulically dredged material within Areas 1, 2, and 3. The hydraulically placed dredge material was placed to an elevation of +3.5 in Areas 1 & 3 with the intent for a final consolidated target elevation of +2.0. Area 2 was filled with hydraulic dredge material to an elevation of +2.0. Area 2 had no containment dikes. The dredged material was taken from within the designated borrow area in Vermilion Bay as shown on the As Built Plans.

Also approximately 8,527 linear feet of existing spoil was raised in locations as needed to form a containment dike to an elevation of +4.0 around Areas 1 & 3. Where raising of the existing spoil was necessary, the containment dike was constructed with a minimum 6' top width with 3 horizontal to 1 vertical side slopes.

Also a 15" diameter PVC pipe with weir notch was installed in the south containment dike of Area 3 that drains the contained area into Lake Portage.

Actual locations and elevations of constructed features are shown on the As Built Plans.

#### 4. Project Cost Elements

The cost elements below are inclusive of both construction units #1 and #2.

ME - 19 Grand/White Lake	CWPPRA Project Cost Estimates	Cost Incurred as of Construction Completion
Construction	\$749,871.00	\$686,822.00*
E & D	\$323,781.00	\$306,389.00
Monitoring	\$ 87,096.00	\$ 14,733.00
O & M	\$105,143.00	\$ 0.00
Total	\$1,262,872.00	\$1,007,944.00

\*There is an outstanding claim that has not been resolved as the date of this publication that could change this value.

#### 5. Items of Work

##### Original Contract

	Work	Est. Quant.	Unit	Est. Unit Price	Est. Amount	Contract Unit Price	Contract Amount	Final Quant.	Final Amount	% Over or Under
1	Mobilization and Demobilization	1	Job	LS	\$250,000.00	LS	\$228,000.00	1	\$228,000.00	0.0%
2	Excavation, Dredging	35,000	CY	\$5.00	\$175,000.00	\$7.499	\$262,465.00	40,991	\$307,392.26	17.1%

Total Estimate \$425,000.00

Contract Bid Amount \$490,465.00

##### Modification #2

	Reduce Contract Amount for 44 days actual cost to the Government						(\$4,400.00)	0	(\$4,400.00)	0.0%
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##### Modification #7

3	PVC Drain Pipe, 15" Dia.	1	EA	\$2,459.75	\$2,459.75	\$4,848.33	\$4,848.33	1	\$4,848.33	0.0%
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Contract Amount \$535,840.59

The contract amount has been reduced further for contractor caused delays increasing the cost to the Government by \$9,234.00

(\$9,234.00)

Final Contract Amount \$526,606.59

#### 6. Construction and Construction Oversight Construction Unit #2

Prime construction contractor	Bay West Inc
Subcontractor	Eagle North America
Original construction contract	\$ 490,465.00
Change orders	\$ 448.33
Over/Under runs	\$ 44,927.26
Reduction to contract	\$ 9,234.00
Final construction contract	\$ 526,606.59*

\*There is an outstanding claim that has not been resolved as the date of this publication that could change this value.

## **7. Major Equipment Used**

Caterpillar 322-B Marsh Buggy Excavator  
370 Ellicott 10" hydraulic dredge with 12" HDPE discharge line  
Booster Pump for dredge  
Marshmaster marsh buggy (small marsh buggy to carry personnel)  
Work barge  
Quarter barge  
One Crew boat  
Small Push boat  
Small flat boats

## **8. Construction Sequence**

The construction contract was awarded on January 30, 2003. A preconstruction meeting was held on February 24, 2003, with the notice to proceed issued for February 26, 2003. The contractor was slow to mobilize and begin work and a cure notice was issued on March 20, 2003 requesting the contractor to provide revised schedule as to how work would be accomplished within the 50 calendar day performance time that started on February 26, 2003.

The contractor was on site on March 24, 2003 and began by hooking up the HDPE discharge pipe segments. At this time the contractor was delayed by the pipeline company which had not marked the pipeline in order for the containment dikes to be constructed. The dredge was mobilized to the site on April 6, 2003. The pipeline began marking the line on April 9, 2003. After building required containment dikes in Area 3, the excavator moved to Area 1 and began building the containment dikes required there.

The contractor first placed the discharge pipe from the borrow area into Area 3 (closest to the borrow area). The work building the containment dikes began on April 12, 2003, in Area 3, and pumping of material into this area began on March 14. Progress was slow due to multiple breakdowns of the dredge. While pumping into Area 3, the contractor stretched discharge pipe to Lake Portage and staged a booster pump in Lake Portage to prepare for pumping into Areas 1 & 2. Pumping continued into Area 3 until April 29 when the contractor began placing dredge material into Area 1. This continued until May 6 when the contractor began demobilizing equipment since all equipment had to be off the area by May 8, 2003.

A decision was made not to terminate for default, but allow the contractor the opportunity to complete the job the next spring when LDWF would allow work to be performed. As such the contractor hired a subcontractor, Eagle North America to complete the outstanding work on the contract.

On January 13, 2004 the contractor was back in the area (not at the job site) preparing to mobilize back to the work area. The contractor mobilized to the site and began pumping material into Area 1. The contractor alternated placement of dredged material periodically between Areas 1 & 2. During this time a marsh fire occurred that damaged a significant segment of the HDPE discharge pipe that was placed along the side of Area 3. The contractor had to repair and replace the damaged pipe. Also during this second phase of construction the contractor routed the marsh buggy equipment outside the construction limits of the contract, damaging areas of the marsh. Ultimately the contractor completed the dredging and placement activities for all three areas on May 3, 2004. The contractor then was required to repair damaged marsh areas by planting plants, filling ruts, and fertilizing all tracked areas. This work was completed on May 24, 2004.

Currently there is one outstanding claim resulting from this contract regarding delays in marking the pipeline during the first construction period.

## 9. Contract Modifications & Field Changes

Modification #1: This was a no cost change modification that corrected an error in the contract performance time. The performance time was changed from 50 calendar days to 64 calendar days.

Modification #2: Extended the contract by 288 calendar days because the contractor did not complete the work within the original time frame. The decision was made to allow this rather than defaulting the contractor and going through another procurement procedure. As a result of allowing the contractor to continue, the contract was reduced by \$4,400 as a result of additional inspection costs incurred by the Government.

Modification #3: No modification #3 issued.

Modification #4: Extended the contract performance time by 11 calendar days due to fire caused by third party. This was a no cost change modification.

Modification #5: Extended the contract performance time by 15 calendar days due to weather conditions. This was a no cost change modification.

Modification #6: This was a unilateral modification requiring the contractor to install a 15" diameter PVC pipe in Area 3. The purpose for installing the pipe was to allow high tidal exchange and to allow rain water to drain from the area where the dredged material was placed.

Modification #7: Provided an equitable adjustment for the work required in modification #6. The contract amount was increased by \$4,848.33 for the installation of the 15" diameter PVC pipe in Area 3.

## 10. Pipeline and Utility In the Project Location

<u>Utility Type</u>	<u>Owner</u>	<u>Rep. To Contact</u>
Gas Pipeline	Sea Robin Pipeline Company	Doug Duhan/Dave Nolan 15910 LA Hwy 331 Erath, LA 70533 (337) 937-5007
Gas Pipeline	Texas Gas Transmission Corporation	Youngsville office Kevin Cooper (337) 856-5971
Gas Pipeline	Texaco Pipeline Company	William Wied 5624 Aristide Road Erath, LA 70533 (337) 937-5846

## 11. Construction Safety

There were no safety issues raised during the contract.

## 12. Additional Comments

None

**13. Significant Construction Dates:**

<b>Contract No. 50-7212-03-11</b>	<b>Date</b>
Bid Opening	1/21/2003
Construction Contract Award	1/30/2003
Preconstruction Conference	2/24/2003
Notice to Proceed	2/25/2003
Mobilization	3/24/2003
Construction Start	3/31/2003
Construction Completion	5/11/2004
Final Acceptance	5/24/2004